



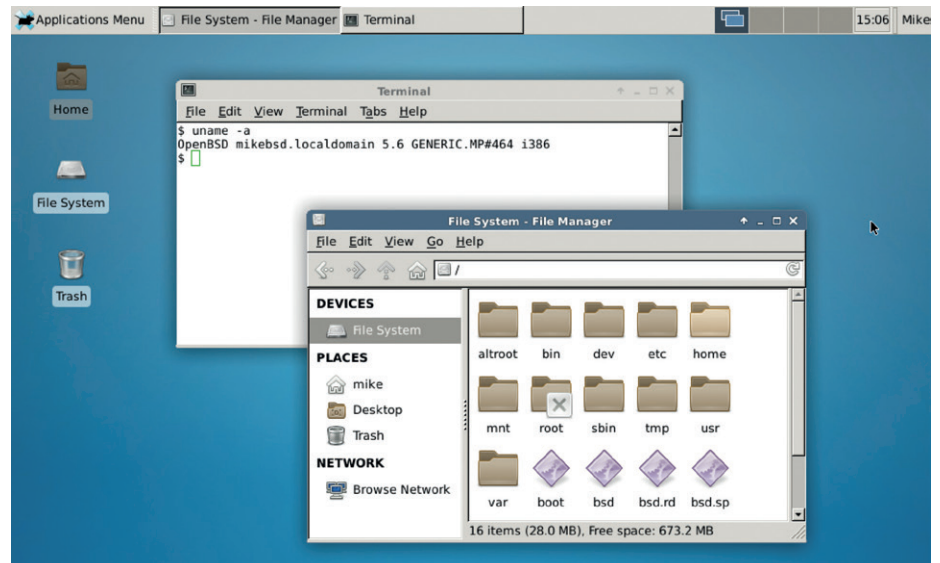
# News from the \*BSD camps

What's going on in the world of FreeBSD, NetBSD and OpenBSD.

We've had a few requests to cover the BSDs in Linux Voice, and for good reason: they're open source, Unix-flavoured operating systems under active development and with plenty of interesting tech inside. Right now, the OpenBSD team is gearing up for its 5.7 release, which is due to arrive on 1 May. OpenBSD is famous for having a like-clockwork release schedule, so we don't expect 5.7 to slip unless a major show-stopper bug is found.

The biggest change in this release is the rewriting of `rand()`, `random()` and other C library random number routines. They now return non-deterministic results, which breaks POSIX standards, but as the patch description from the team put it: "Violates POSIX and C89, which violate best practice in this century". Replacement routines have been written which follow the older deterministic model. This should improve security, but could also break some third-party apps (until they're patched).

Also on a security note, more OS binaries are now PIE (position-independent



OpenBSD makes a decent desktop OS if your hardware is supported – see our review in issue 10.

executables), which helps to have a randomised address space so that attackers can't guarantee where a certain piece of code in memory lives. Additionally, MD5 has been replaced with SHA512 in various parts of the codebase.

One thing the OpenBSD team does especially well is getting rid of old cruft: 5.7 removes loadable kernel modules, procs support and a few drivers. These are changes that won't please everybody, but are important for a clean codebase.

## Red Hat Linux 5.2 – Linux reaches the mainstream

This seems like a random release to include in our historical distros section. Why not a major release like Red Hat 5.0 or 6.0? Well, something significant happened with 5.1 and 5.2. They were the first Red Hat releases – and arguably the first releases of any Linux distro – that started to get mainstream attention. We remember them being featured on the coverdiscs of several PC magazines in the UK, so it was the first exposure to Linux for many people.

On top of that, Red Hat was selling shiny boxed sets with DVDs, manuals and other materials. Linux was maturing from a random plaything Unix you could download from an FTP server; it was a professional, finished product you could buy and install for your home and business. Magazines started running tutorials on Linux as well, explaining how you could effectively get high-end Unix features for free (or a much lower price).

Looking back, and removing the rose-tinted specs, we can be honest: Red Hat 5.2 was very rough. Gnome and KDE hadn't reached version 1.0 yet, so the bundled "desktop" was a scrappy Windows 95-like *FVWM* setup called Anotherlevel with a few extra widgets lying around. We remember getting online with dialup and the horrendously crash-prone *Motif*-based *Netscape* browser, and recompiling the kernel to enable a driver for our on-board sound chip.

ISO images of Red Hat 5.2 are available from [https://archive.org/details/redhat-5.2\\_release](https://archive.org/details/redhat-5.2_release) if you want to try it, but it's fiddly to get working in modern PC emulators and VMs.

Red Hat 5.2 arrived in November 1998, and was charming despite its rough edges.

